**Biology Cells! An Outline (Chapter 7)**

*Vocabulary*: Define in your own words

Eukaryotic Cell-

Prokaryotic Cell-

Organelle-

Plasma membrane-

Selective permeability-

phospholipid bilayer-

Fluid mosaic model-

Ribosome-

Cytoskeleton-

Cytoplasm-

Endoplasmic Reticulum-

Golgi Apparatus-

Mitochondrion-

Nucleolus-

Chloroplasts-

Cell wall-

Lysosome-

**Respond to the following prompts/concepts:**

What are the three principles of cell theory? Also, which scientists contributed to each part of the theory? (6 pts)

How did advances in microscope technology lead to the discovery of the cell? Explain. (2 pts)

What are the roles of proteins, cholesterol, and carbohydrates in the plasma membrane? Explain. (3 pts)

What are the similarities and differences between plant and animal cells? Explain. (4 pts)

What is the purpose of cilia and flagella? How are cilia and flagella different, but similar? Explain. (2 pts)

What are the three types of solutions that occur in cellular environments? How does each solution type affect cells? Elaborate on each solution type. (6 pts)

What are two methods of cell transport that involve large particles? Compare and contrast these two processes. (4 pts)

***ABOUT THE READING:***

Write three things that you learned about Cells*:*

***Make sure to write a full sentence.***

*Example: I learned that if a cell is in a hypertonic solution, the cell will shrink which could cause the cell to die.*

*1.*

*2.*

*3.*

***ASSIGNMENT: Role Play: (15 pts)***

*Pick a scientist that made a major contribution to the field of cell biology. Your task is to give a presentation, playing the role as the scientist, that explains what that scientist did to further humankind's knowledge of cells. A further breakdown on the specifics of grading will be provided in class. A couple things that should be considered:*

* *When and how did the scientist make the discovery?*
* *What are some major events that led to to his/her discovery/research?*
* *Why was his/her discovery significant?*

*Students are encouraged to dress and play the part of their chosen scientist.*